



**JOINT ICTP/TWAS WORKSHOP ON  
SEISMIC SOURCES IN CENTRAL AMERICA:  
WHAT IS THE LARGEST EARTHQUAKE  
EACH CAN PRODUCE?**

**30 October - 5 November 2011  
Heredia, Costa Rica**

The Abdus Salam International Centre for Theoretical Physics (ICTP) is organizing a Workshop on Seismic sources in Central America: What is the largest earthquake each can produce? to be held from October 30th to November 5th, 2011, in Heredia, Costa Rica.

Central America is exposed to the impact of both large subduction earthquakes (Guatemala 1902, Ms 7.4 and 1942, Ms 7.7; Panama 1934, Ms 7.4; Costa Rica 1950, Ms 7.7 and Nicaragua 1992, Ms 7.6) as well as moderate to large magnitude destructive earthquakes within continental interiors. Examples include: Cartago, Costa Rica, in 1910 (M 5.8); Managua, Nicaragua in 1931 (M 6.5) and 1972 (M 6.2); Guatemala City, Guatemala, in 1976 (Ms 7.5); and San Salvador, El Salvador, in 1986 (M 6.5) among others. These places that have been destroyed in the past are now far more vulnerable because of the growth of their populations and poor building quality.

The workshop will review the different seismic sources deriving from the geodynamics of the region and address key scientific issues regarding their seismogenic potential, as well as design programs to comprehensively monitor the active deformation and evaluate the related hazard.

The goals of the workshop are also to establish a new initiative for cooperation in Central America and develop networks for exchange of ideas and expertise so to facilitate capacity-building and training of individual scientists from those countries where the need is greatest.

The workshop will include invited lectures, contributed papers and panel discussions.

Those who wish to contribute to the workshop should include a title and a one-page abstract together with the application form. Presentations by participants from Central America on their specific area of research are particularly welcome.

### Participation

The workshop is open to researchers and students from all countries which are members of the United Nations, UNESCO, or IAEA. The principal objective of the ICTP is to help researchers from developing countries through a programme of training activities within a framework of international cooperation. Participants should have an adequate working knowledge of English. Due to budget limitations, every effort should be made by candidates to secure either total or partial support for their expenses. However, funds are available exclusively for a limited number of participants who are nationals of, and working in, Central American countries. Participants are required to take part in all aspects of this activity for its entire duration. There is no registration fee.

### ORGANIZERS

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**DEADLINE**  
**30 SEPTEMBER 2011**

Applications are to be submitted  
online through the activity webpage

<http://agenda.ictp.it/smr.php?2288>

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